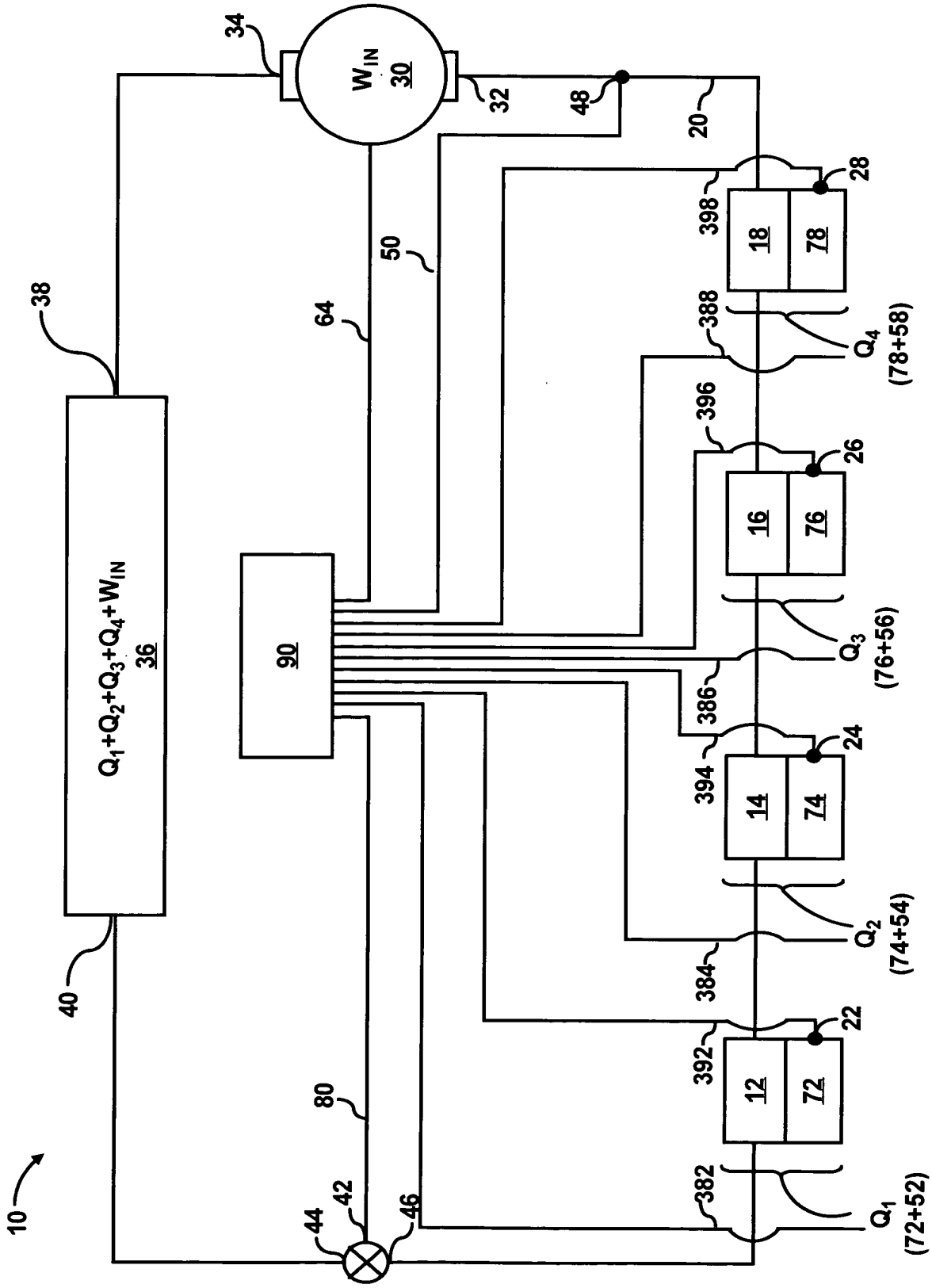
34
W_{IN} 30
32
48
20
28
398
18
78
388
Q_4 (78+58)
396
26
16
76
Q_3 (76+56)
386
24
394
14
74
Q_2 (74+54)
384
22
392
12
72
382
Q_1 (72+52)
50
64
38
$Q_1+Q_2+Q_3+Q_4+W_{IN}$ 36
40
90
80
42
44
46
10

FIG. 1

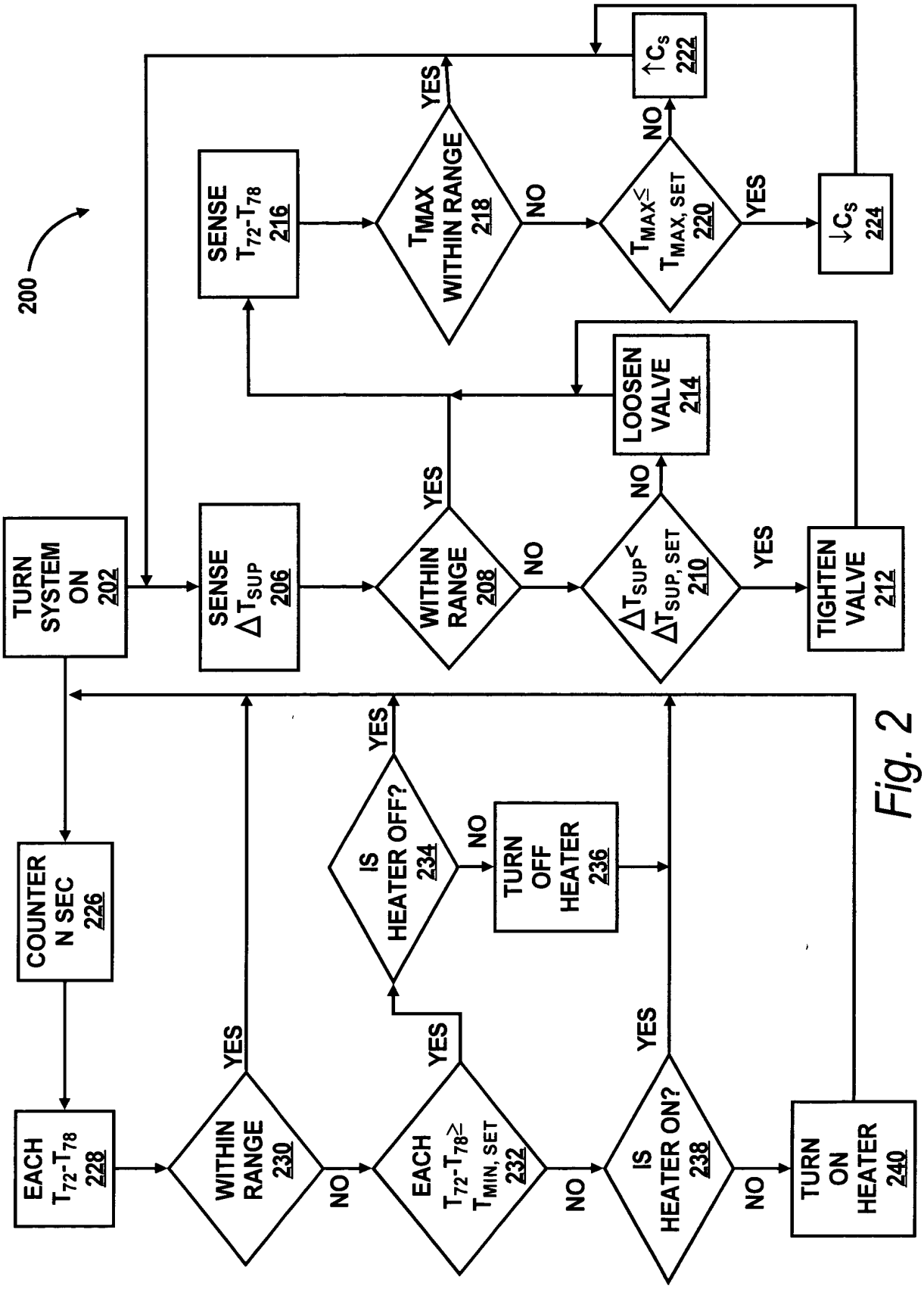
200
TURN SYSTEM ON 202
SENSE ΔT_{SUP} 206
WITHIN RANGE 208
NO
YES
$\Delta T_{SUP} < \Delta T_{SUP, SET}$ 210
NO
YES
LOOSEN VALVE 214
TIGHTEN VALVE 212
SENSE T_{72}-T_{78} 216
T_{MAX} WITHIN RANGE 218
NO
YES
$T_{MAX} \leq T_{MAX, SET}$ 220
NO
YES
$\uparrow C_S$ 222
$\downarrow C_S$ 224
COUNTER N SEC 226
EACH T_{72}-T_{78} 228
WITHIN RANGE 230
NO
YES
EACH T_{72}-$T_{78} \geq T_{MIN, SET}$ 232
NO
YES
IS HEATER ON? 238
NO
YES
IS HEATER OFF? 234
NO
TURN OFF HEATER 236
TURN ON HEATER 240

Fig. 2